

# *FACT SHEET*

## Stericycle Move to Tooele

Stericycle has submitted an application or Notice of Intent (NOI) to the Division of Air Quality (DAQ) for an Approval Order (AO) for a proposed hospital, medical, and infectious waste incinerator (HMIWI) source at 9250 Rowley Road, Tooele, Utah. The source is intended to replace the HMIWI source that is owned by Stericycle and is currently operating in North Salt Lake.

### **PROCESS DESCRIPTION**

The company proposes the construction and operation of two HMIWI units, each of which will be equipped with an automated waste feed system and meet the regulatory definition of “continuous HMIWI.” Each HMIWI will be designed and sized to process up to 2,050 pounds per hour of hospital/medical/infectious (HMI) waste (4,100 pounds per hour total).

Each incineration unit will employ a natural-gas-fired two-stage combustion system. The two-stage combustion system will ensure complete destruction of waste. Each HMIWI will be equipped with a dedicated air pollution control (APC) system. The APC system will consist of the following control technologies:

- Selective non-catalytic reduction system (SNCR)
- Waste heat boiler
- Evaporative cooler
- Carbon injection system
- Dry sorbent injection system
- Baghouse
- Wet gas absorber
- Carbon bed system

A generator, dry sorbent silo with bin vent, and tub washer will also be operated at the facility. Each HMIWI will also be equipped with an emergency bypass stack which, under emergency conditions, will allow gas from the secondary chamber to vent directly to the atmosphere without passing through the APC equipment. The emergency bypass stack will only be utilized when necessary for employee safety and to prevent catastrophic damage to the APC equipment due to a significant process upset or other unforeseeable circumstance causing a process interruption. Waste feed to the primary chamber will be prevented from entering the chamber by a waste feed lockout system, while the bypass stack is open.

Additional activities at the facility will include waste delivery, processing, and unloading. Each container that arrives for incineration will be weighed, scanned to document receipt, and monitored/screened for possible radioactivity as outlined in the Solid Waste Permit issued by the Utah Division of Waste Management and Radiation Control.

### ***EMISSIONS***

The Potential to Emit (PTE) of criteria pollutants, greenhouse gas (GHG) pollutants, hazardous air pollutants (HAPs), and other non-HAPs from the proposed HMIWI units were calculated for both normal operating conditions (waste combustion), as well as startup conditions (supplemental natural gas firing for purposes of preheating the combustion chambers).

<b>Potential to Emit for Criteria Pollutants and Greenhouse Gases (tons per year)</b>	
PARTICULATE MATTER (PM10)	1.94
PARTICULATE MATTER (PM2.5)	1.94
NITROGEN OXIDES (NOX)	28.31
SULFUR DIOXIDE (SO2)	2.36
CARBON MONOXIDE (CO)	1.93
VOLATILE ORGANIC COMPOUNDS (VOCS)	1.06
HAZARDOUS AIR POLLUTANTS (HAPS)	2.08
CARBON DIOXIDE EQUIVALENT (CO2E)	47,316.89

The proposed source is located in Tooele County and within an attainment area of Tooele County where all criteria pollutants meet the National Ambient Air Quality Standards (NAAQS). The Tooele facility will not emit any air pollutants subject to regulation in excess of 100 tons per year, and therefore, will not be considered a major source with respect to the emissions thresholds of the Title V Operating Permit program. However, the Tooele facility will be subject to the Title V Operating Permit Program and DAQ's Title V permitting program (R307-415) as a regulated source under 40 CFR Part 60, Subpart Ec pursuant to 40 CFR 60.50c(1).

Stericycle will utilize continuous parametric and selected pollutant monitoring, as applicable, to ensure ongoing compliance with the emission limitations. Waste feed will automatically stop if an operating parameter value is outside of an established limit.

### ***PUBLIC COMMENT***

DAQ is requesting comments on this Intent to Approve (ITA) during a \_\_30\_\_-day public comment period beginning March 24, 2016 and ending April 23, 2016. Written comments received by DAQ at 195 North 1950 West, Salt Lake City, Utah, 84114, on or before April 23, 2016 will be considered in making the final decision on the approval/disapproval of the proposed project. Email comments received on or before April 23, 2016 will also be accepted at [jlblack@utah.gov](mailto:jlblack@utah.gov).

A public hearing will be held on April 18, 2016 in accordance with UAC R307-401-7. The hearing will be held in the Auditorium of Tooele High School, 301 W. Vine Street, Tooele, Utah, beginning at 5:30 pm and will be held for at least one hour. Any comments received during the public comment period and at the hearing will be evaluated. The proposed conditions of the Approval Order may be changed as a result of the comments received.

All oral and written comments are entered into the record and are considered equally. DAQ will prepare a Response to Comments document after the comment period ends. A person who wishes to challenge a Permit Order after it is issued may only raise an issue or argument during an adjudicatory proceeding that was raised during the public comment period and was supported with sufficient information or documentation to enable the director to fully consider the substance and significance of the issue.